

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Cancelled)

2. (Currently Amended) The apparatus of claim [[1]] 9, wherein the slickline comprises a bore through which the fiber optic line extends.

3. (Original) The apparatus of claim 2, further comprising another fiber optic line that extends through the bore of the slickline.

4. The apparatus of claim [[1]] 9, further comprising longitudinally-extending support structures to add strength to the slickline.

5. The apparatus of claim 4, wherein the longitudinally-extending support structures include support fibers.

6. – 7. (Cancelled)

8. (Currently Amended) ~~The apparatus of claim 7,~~ An apparatus for use in a well, comprising:

a slickline having a fiber optic line therein;

a tool attached to the slickline, wherein the tool comprises a sensor; and

a modulator to modulate optical signals to represent a well characteristic detected by the sensor,

wherein the sensor comprises a casing collar locator.

1 9. (Currently Amended) ~~The apparatus of claim 7,~~ An apparatus for use in a well,  
2 comprising:  
3 a slickline having a fiber optic line therein;  
4 a tool attached to the slickline, wherein the tool comprises a sensor; and  
5 a modulator to modulate optical signals to represent a well characteristic detected by the  
6 sensor,  
7 wherein the modulator comprises an obstacle and a reflective device, the obstacle and  
8 reflective device movable with respect to each other to modulate the optical signals.

1 10. (Original) The apparatus of claim 9, wherein the obstacle and the reflective device have  
2 at least two relative positions, the obstacle blocking at least a portion of reflected light from the  
3 reflective device in response to the obstacle and the reflective device being at a first relative  
4 position, and the obstacle to allow a greater amount of reflected light to pass from the reflective  
5 device to the fiber optic line in response to the obstacle and the reflective device being at a  
6 second position.

1 11. (Original) The apparatus of claim 10, wherein the reflective device comprises a mirror.

1 12. (Original) The apparatus of claim 9, wherein the obstacle modulates an amount of  
2 reflected light transmitted by the reflective device to the fiber optic line.

1 13. (Original) The apparatus of claim 12, wherein the reflective device is adapted to receive  
2 transmitted light transmitted by an optical transmitter into the fiber optic line, and to reflect the  
3 received light as the reflected light.

1 14. (Withdrawn) The apparatus of claim [[7]] 8, wherein the modulator comprises a spinner  
2 to modulate the optical signals.

1 15. (Currently Amended) The apparatus of claim [[6]] 9, wherein the tool is adapted to  
2 receive an actuation command through the fiber optic line.

1 16. (Currently Amended) The apparatus of claim [[1]] 9, wherein the slickline is adapted to  
2 support a weight of greater than or equal to 500 pounds.

1 17. (Currently Amended) The apparatus of claim [[1]] 9, wherein the slickline is a  
2 conveyance structure without an electrical conductor to communicate power or data.

1 18. (Currently Amended) The apparatus of claim [[1]] 9, wherein the slickline is a  
2 conveyance structure that does not communicate power or data separate from the fiber optic line.

1 19. (Currently Amended) The apparatus of claim [[6]] 9, wherein the tool comprises an  
2 optical transmitter to transmit optical signals over the fiber optic line.

1 20. – 21. (Cancelled)

1 22. (Currently Amended) ~~The apparatus of claim 21,~~ An apparatus comprising:  
2 a conveyance structure for inserting or removing a tool into or out of a wellbore; and  
3 a fiber optic line extending through the conveyance structure;  
4 the conveyance structure not being used to transmit power or data therethrough separate  
5 from the fiber optic line,  
6 wherein the conveyance structure comprises a conveyance tube,  
7 wherein the conveyance tube has a diameter less than about 0.5 inch,

1 23. (Currently Amended) The apparatus of claim [[20]] 22, wherein the conveyance  
2 structure comprises a bore through which the fiber optic line extends.

1 24. (Currently Amended) The apparatus of claim [[20]] 22, further comprising another fiber  
2 optic line disposed in the conveyance structure.

1 25. (Cancelled)

1 26. (Currently Amended) The apparatus of claim [[20]] 22, further comprising a modulator  
2 to modulate optical signals to represent an event associated with the tool.

1 27. (Currently Amended) ~~The apparatus of claim 26,~~ An apparatus comprising:  
2 a conveyance structure for inserting or removing a tool into or out of a wellbore;  
3 a fiber optic line extending through the conveyance structure;  
4 the conveyance structure not being used to transmit power or data therethrough separate  
5 from the fiber optic line; and  
6 a modulator to modulate optical signals to represent an event associated with the tool,  
7 wherein the modulator comprises an obstacle and a reflective device, the obstacle and  
8 reflective device movable with respect to each other to modulate the optical signals.

1 28. (Original) The apparatus of claim 27, wherein the obstacle modulates an amount of  
2 reflected light transmitted by the reflective device to the fiber optic line.

1 29. (Original) The apparatus of claim 28, wherein the reflective device is adapted to receive  
2 transmitted light transmitted by an optical transmitter into the fiber optic line, and to reflect the  
3 received light as the reflected light.

1 30. – 38. (Cancelled)

1 39. (New) The apparatus of claim 9, wherein the obstacle comprises a magnet.

1 40. (New) The apparatus of claim 9, further comprising an actuator to move at least one of  
2 the obstacle and reflective device in response to a predetermined condition in the well.

1 41. (New) The apparatus of claim 40, further comprising a casing collar locator, wherein the  
2 actuator receives data from the casing collar locator to move the at least one of the obstacle and  
3 reflective device.